

[First Hit](#) [Previous Doc](#) [Next Doc](#) [Go to Doc#](#)

End of Result Set

☐ [Generate Collection](#) [Print](#)

L14: Entry 2 of 2

File: DWPI.

Feb 10, 1989

DERWENT-ACC-NO: 1989-089814

DERWENT-WEEK: 198912

COPYRIGHT 2005 DERWENT INFORMATION LTD

TITLE: Prodn. of precisely ground glass e.g. glass lens - by lapping with cerium oxide base polishing material and then with colloidal silica

PATENT-ASSIGNEE:

ASSIGNEE

NAOETSU SEIMITSUKAKO KK

SHINETSU CHEM IND CO LTD

CODE

NAOEN

SHIE

PRIORITY-DATA: 1987JP-0197781 (August 7, 1987)

[Search Selected](#)[Search ALL](#)[Clear](#)

PATENT-FAMILY:

PUB-NO

PUB-DATE

LANGUAGE

PAGES

MAIN-IPC



JP 01040267 A

February 10, 1989

005

APPLICATION-DATA:

PUB-NO

APPL-DATE

APPL-NO

DESCRIPTOR

JP 01040267A

August 7, 1987

1987JP-0197781

INT-CL (IPC): B24B 37/00

ABSTRACTED-PUB-NO: JP 01040267A

BASIC-ABSTRACT:

The surface of a glass plate is lapped with a Ce oxide base polishing material before carrying out final lapping using colloidal silica that has a specific surface area of 200-600 m²/g and a grain size of less than 300 microns. The colloidal silica used is produced by hydrolysing an alkoxy silane in a water - alcohol soln. contg. an ammonia alkali catalyst.

Specifically the pH of the colloidal silica is adjusted to 9-11 by adding NaOH, KOH, amine type alkali, etc. A polishing cloth is used and pushed onto the grinding surface of glass articles with a pressure of 0.01-1 kg/cm².

USE/ADVANTAGE - Surface of a glass lens, mirror, photo-mask or other optical glass articles is finally polished with a surface roughness lower than 20 Angstroms, without deteriorating the surface and scratching the polished surface.

CHOSEN-DRAWING: Dwg.0/3

TITLE-TERMS: PRODUCE PRECISION GROUND GLASS GLASS LENS LAP CERIUM OXIDE BASE POLISH
MATERIAL COLLOID SILICA

DERWENT-CLASS: L01 P61

CPI-CODES: L01-G06;

SECONDARY-ACC-NO:

CPI Secondary Accession Numbers: C1989-039875

Non-CPI Secondary Accession Numbers: N1989-068260

[Previous Doc](#)

[Next Doc](#)

[Go to Doc#](#)